



4A0-100^{Q&As}

Alcatel-Lucent Scalable IP Networks

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QUESTION 1

What is the meaning of carrier sense in the CSMA/CD algorithm?

- A. The host will retransmit the frame if it detects a collision during transmission.
- B. The host is able to detect the transmission speed of the Ethernet switch port to which the host is connected.
- C. The host will only transmit data when it detects that no other devices are transmitting.
- D. The host will only transmit upon a timer expiry.
- E. The host will only transmit when it receives the token.

Correct Answer: C

QUESTION 2

Which statement best describes how the internet evolved?

- A. The internet emerged in the commercial world in the 1980's following the US military's adoption of TCP/ IP in 1983.
- B. The internet evolved from a military to a research to a commercial based network.
- C. The internet remained primarily a research based network and was only commercially adopted in 2000 when the world wide web was conceived.
- D. Internet service providers provided the services necessary for military based networks to evolve into research and education based networks.

Correct Answer: B

QUESTION 3

Which of the following applications would be likely to use UDP?

- A. Real-time audio application, such as VoIP
- B. Web browser
- C. Email application
- D. Telnet

Correct Answer: A

QUESTION 4



Which of the following mediums can be used in a VPWS when defining SAPs (Select three)?

- A. Ethernet.
- B. ATM.
- C. Frame Relay.
- D. Token Ring.

Correct Answer: ABC

QUESTION 5

Who was responsible for developing and publishing the original standard that was used for 10 Mbit/s Ethernet?

- A. Intel Corporation.
- B. Digital Equipment Corporation.
- C. DEC-Intel-Xerox.
- D. Apple Computer.
- E. IBM.

Correct Answer: C

QUESTION 6

Which of the following is NOT a field in a TCP header?

- A. Source port.
- B. MTU.
- C. Sequence number.
- D. Acknowledgement number.
- E. Window size.

Correct Answer: B

QUESTION 7

How is Ethernet II different from Ethernet 802.3?

- A. Ethernet II can be used on broadcast networks where as 802.3 was designed for point-to-point networks.
- B. Ethernet II identifies its payload type where as 802.3 indicates the frame length.



- C. Ethernet II identifies its frame length while 802.3 indicates the payload type.
- D. Ethernet II and Ethernet 802.3 are two different names for the same protocol.

Correct Answer: B

QUESTION 8

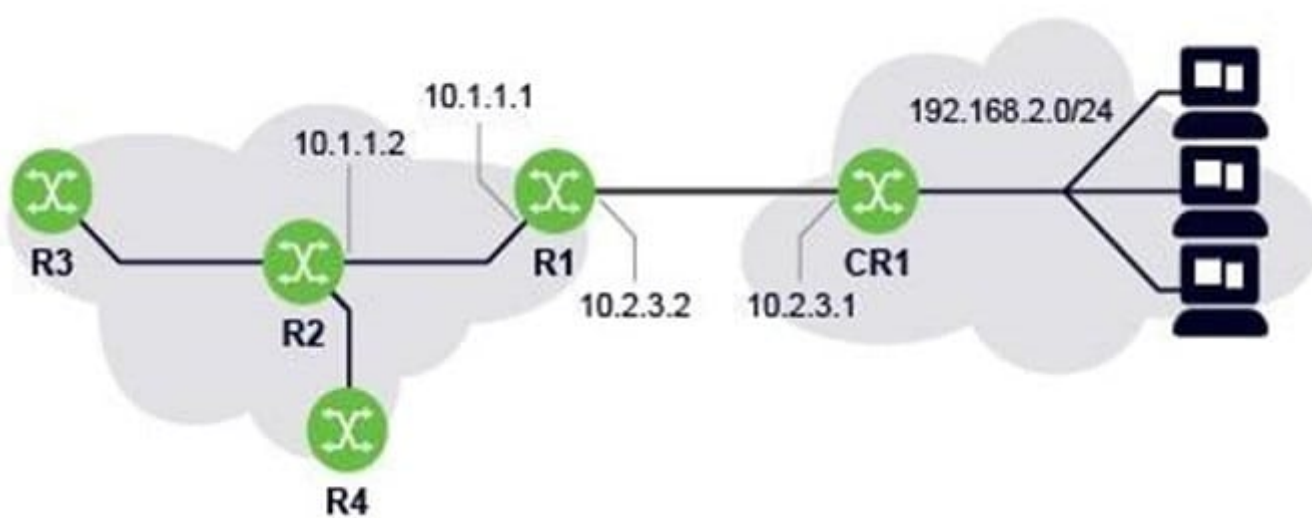
Which Ethernet frame field does the receiver use to verify the integrity of the received bits?

- A. Destination address
- B. Frame check sequence
- C. Preamble
- D. Length field

Correct Answer: B

QUESTION 9

What next-hop should be used on CR1 to configure a default route to router R1?



- A. 10.2.3.2
- B. 10.2.3.1
- C. 192.168.2.0
- D. 10.1.1.1

Correct Answer: A

**QUESTION 10**

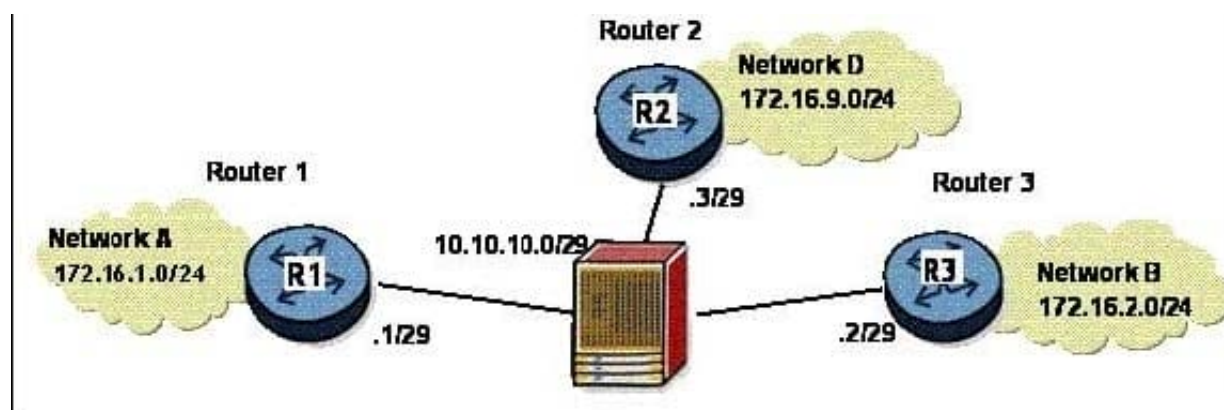
Which of the following is a characteristic of Port Address Translation?

- A. Resolves a MAC address given a specific IP address.
- B. Allows a single public IP address to represent multiple private IP addresses simultaneously.
- C. Maps a private address to a well known port number.
- D. Provides a one-to-one mapping from a private to a public address.

Correct Answer: B

QUESTION 11

Based on the network diagram (click on exhibit), Router 1 installs the network D in its routing table, based on a dynamic routing update from Router 2. Which of the following describes the information that will be installed in the routing table?



- A. 172.16.9.0/24 next-hop 10.10.10.1
- B. 172.16.9.0/24 next-hop 10.10.10.2
- C. 172.16.9.0/24 next-hop 10.10.10.3
- D. Any of the above

Correct Answer: C

QUESTION 12

Which of the following best describes an Autonomous System (AS)?

- A. A group of routers that are under one administrative authority.
- B. A group of networks that make up the Internet.



C. A group of networks from different organizations exchanging routes using IGP routing protocols.

D. Any organization that has a connection to the Internet.

Correct Answer: A

QUESTION 13

A set of tasks that move a packet from its entry into an IP network to its exit from the IP network. This describes:

A. IP routing.

B. IP protocol.

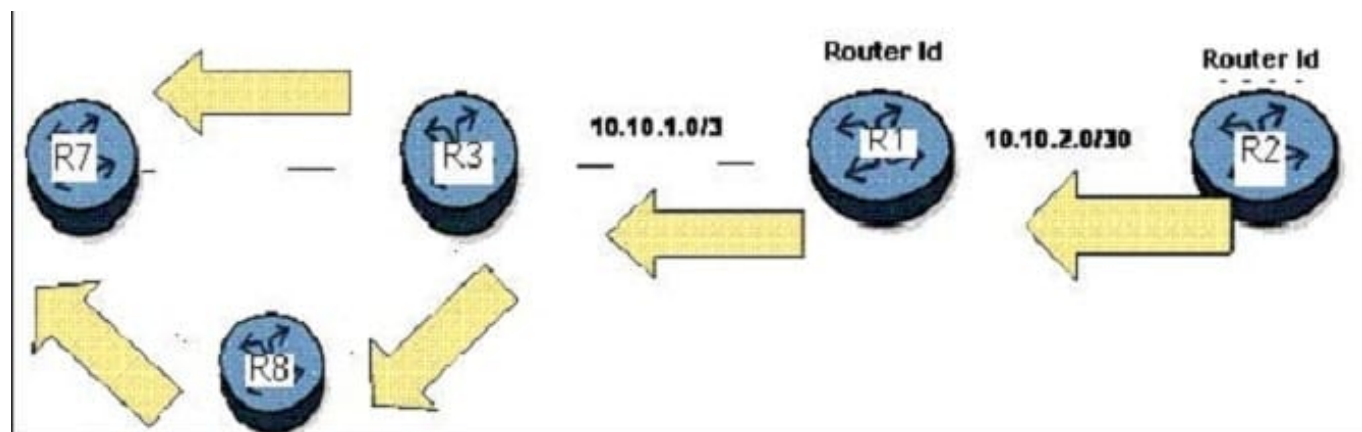
C. IP encapsulation.

D. IP tunneling.

Correct Answer: A

QUESTION 14

In the diagram, R7 receives a new LSA from R3 and installs it in its link state database. 10 ms. later it receives another copy of the LSA with the same sequence number from R8. What does R7 do with the LSA received from R8?



A. R7 silently discards the LSA received from R8.

B. R7 installs the LSA received from R8 in its link state database and floods a copy to its neighbors.

C. R7 discards the LSA received from R8 and sends an ACK to R8.

D. R7 installs the LSA received from R8 in its link state database, sends an ACK to R8 and floods a copy to its neighbors.

Correct Answer: C



QUESTION 15

At what stage in the packet forwarding process, is the IP packet header examined?

- A. When the router first receives a frame from a LAN.
- B. After the forwarding table is checked.
- C. After the IP datagram is extracted from the L2 frame.
- D. Immediately before the IP packet is encapsulated for transmission.

Correct Answer: C

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